2008/2009 *Good Energy* Rebate Program

Yukon Government's Energy Solutions Centre

Final Report

May 13, 2009

Yukon
Energy, Mines and Resources

energy
solutions
centre

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1. PROGRAM OVERVIEW

One of the fundamental objectives of the Yukon government's Energy Solutions Centre (ESC) is to serve Yukon's energy efficiency needs by:

1. helping to build capacity in energy efficiency related fields; and,

2. educating Yukon residents in the benefits of considering energy efficiency in their purchase decisions.

In order to help meet these objectives ESC has provided a number of market transformation programs over the years including: the 2002 Fridge Exchange; 2006 Yukon Project Porchlight; 2006 Reel Mower Rebate; 2006/07 Washer Rebate Program; Seasonal Light Exchange Program; 2007/2008 Appliance Rebate Program.

The potential for energy efficiency improvements and the success of these initiatives has encouraged ESC to continue to offer rebate programs focused on transforming the consumer appliance/equipment market to more efficient "best-in-class" technologies.

ESC's most recent initiative, the 2008/2009 *Good Energy* Rebate program, was a comprehensive rebate program that focused on: household appliances (refrigerators, freezers, clothes washers and dish washers); heating appliances (oil/propane furnaces and boilers, woodstoves, heat recovery ventilators (HRV), and solar water heaters); and boat motors. These appliances make up a large portion of the energy consumed in the Yukon. Despite this fact, the most recent "Residential Energy End Use Survey" shows that a relatively small number of Yukon households have chosen to invest in high efficiency appliances. The survey also shows that a significant number of Yukon households have appliances that are 10 years or older and will likely require replacements in the near future.

The *Good Energy* program offers Yukon residents who purchased an Energy Star®-rated clothes washer, dish washer, refrigerator or freezer a $100 rebate ($200 for residents of diesel powered communities). Similarly, applicants could receive a $300 or $500 rebate for an Energy Star®-rated central heating unit (furnace or boiler); $300 for CSA-approved pellet stoves and EPA-approved woodstoves; $300 for HVI approved HRV's; $500 for CSA-approved solar water heating systems; and $300 or $500 for California Air Resource Board (CARB) 3-star rated boat motors. Applicants were required to supply appropriate proof of purchase along with an application form and brief program survey. (For more information on the program Terms and Conditions see Appendix A)

2. PROJECT BUDGET

The cumulative rebate costs of the program are shown in Chart 1 below. The program averaged approximately $810 per day in rebates over the course of 8 months. It is clear from chart 1 that the participation in this program was consistent throughout the year and showed no indications that the market for Energy Star® appliances or interest in the program had been saturated.

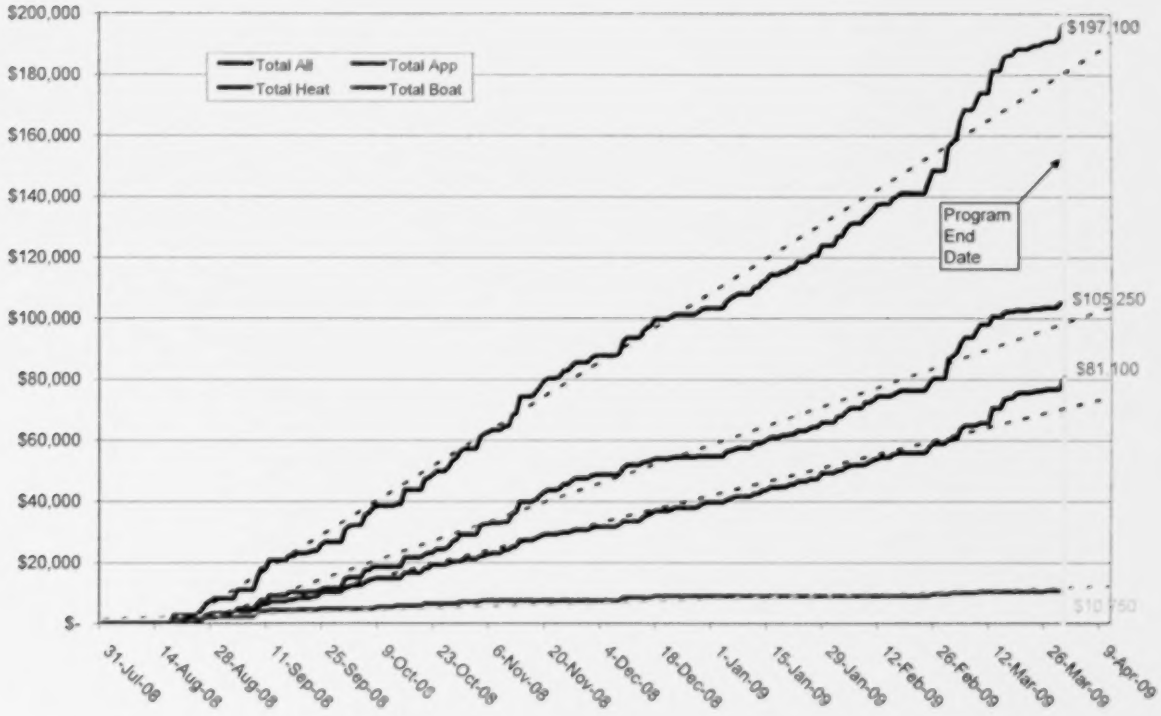

Chart 1: Cumulative Rebate costs

Total marketing costs for the program were $26,676.56. This includes costs of all advertising (radio, newspaper), development of marketing materials (signs, tags, newspaper ads, website graphics), and development and printing of application forms.

Total rebate costs for the fiscal year 2008/2009 were $197,900.

3. PROJECT RESULTS

The 2008-09 *Good Energy* program which ran from August 1, 2008 to March 31, 2009 had 859 successful applicants (approximately 8% of Yukon households) receiving rebates for 785 appliances, 267 heating appliances, 28 HRV's and 31 boat motors.

These numbers represent a significant improvement over last year's program with an increase in total applications of 46%; an increase in home appliance applications of 14%; and an increase in heating appliance applications of 258%.

The 2008/2009 program averaged approximately 3.55 rebates per day over the course of the program, which is a 28% increase from the previous year.

Chart 2a/2b below show the distribution of all rebates by appliance for 2008/2009. As in previous years household appliances are the most common rebate applications received; however, woodstoves and other heating appliances also make up a significant portion of the rebates.

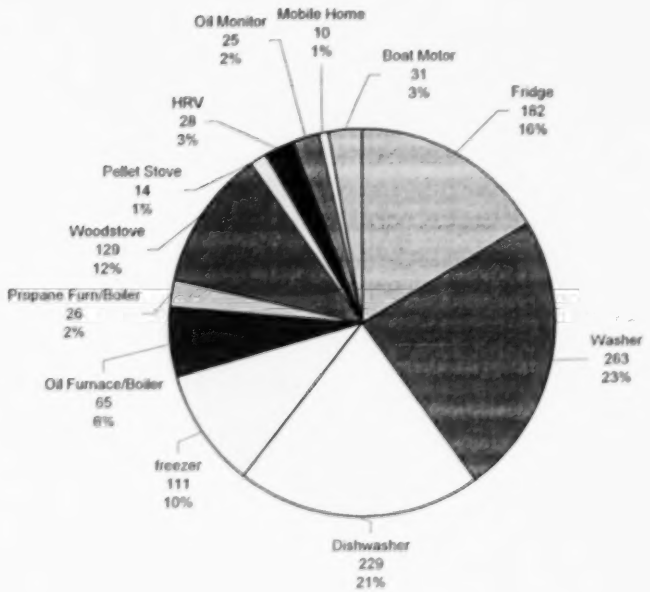

Chart 2a: Distribution of Rebate Applications by Appliance

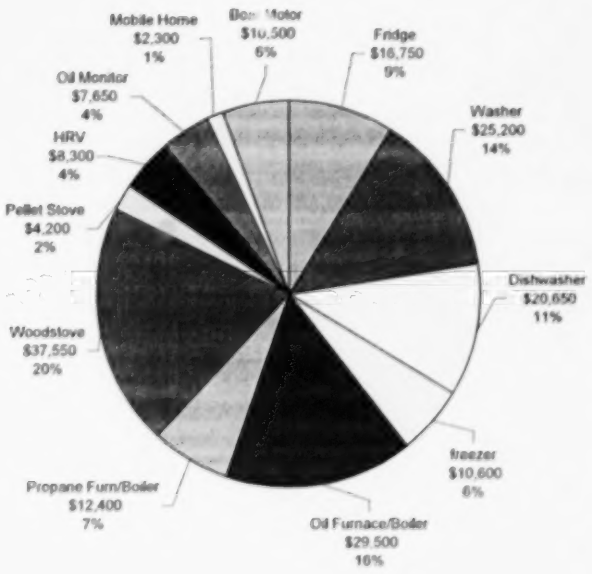

Chart 2a: Distribution of Rebate Dollars by Appliance

3.1. Home Appliances

785 rebates were provided for Energy Star® rated home appliances through this program. The breakdown of appliances is shown in Chart 3 below.

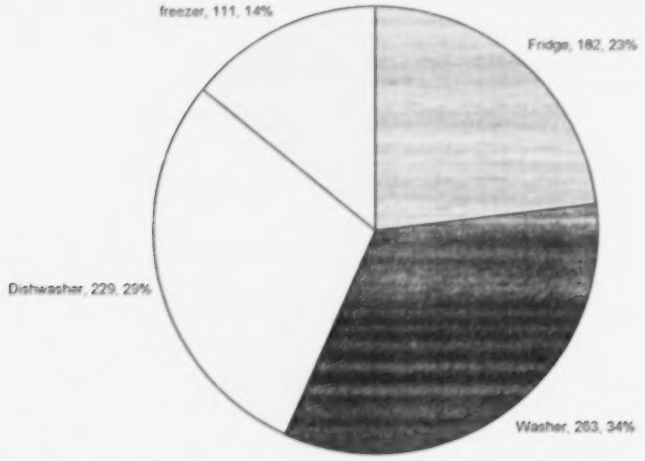

Chart 3: Distribution of Rebate Applications by Appliance

Based on data collected and reported by Energy Star® and NRCan's Office of Energy Efficiency the 785 Energy Star® rated appliances purchased over the course of this program will result in estimated total energy savings of 365,000 kWh/year and water savings of approximately 10,750,000 litres/year. The calculation of this data is summarized in Table 1 below.

		Clothes Washers	Dishwashers	Refrigerator	Freezers	Total
Energy Consumption (kWh/year)	Conventional (based on 1990)	1,200	1,026	1,044	658	
	Conventional (new)	887	617	465	344	
	Energy Star	296	452	411	308	
Savings	Min	591	165	54	36	
	Max	904	574	633	350	
	Average	748	370	344	193	
Water Use (litres/year)	Conventional (new)	51,335	4,889			
	Energy Star	23,286	3,259			
Savings	Average	37,311	4,074			
Number of Rebates Excepted (Hydro Comm.)						
Number of Rebates Excepted (Diesel Comm.)						
Number of Rebates Excepted Total		263	229	182	111	785
Est. Total Energy Savings (kWh/year)		196,593	84,616	62,517	21,436	365,161
Est. Total Water Savings (litres/year)		9,812,662	932,946			10,745,608

Table 1: Estimated Energy and Water Savings of Rebated Energy Star® Rated Home Appliances

3.1.1. Cost Savings

With a total savings of approximately 365,000 kWh/year this constitutes an electrical bill savings to participating Yukon residents of approximately $40,000 per year and more than $400,000 over an estimated 10 year life span of the appliances.

3.1.2. Water Savings

In addition to these energy savings, participants in this program who purchased water saving dishwashers and clothes washers are responsible for savings of an estimated 10,750,000 litres of water per year or approximately 100,000,000 litres of water over an estimated 10 year lifespan of the appliances purchased. This represents not only significant savings for consumers, but considerable water savings for municipal governments concerned with the costs of extracting, treating, distributing and disposing of water.

3.2. Heating Appliances

Of the 267 heating appliances for which rebates were received over half used renewable energy as a fuel while the remainder were energy efficient oil and propane appliances.

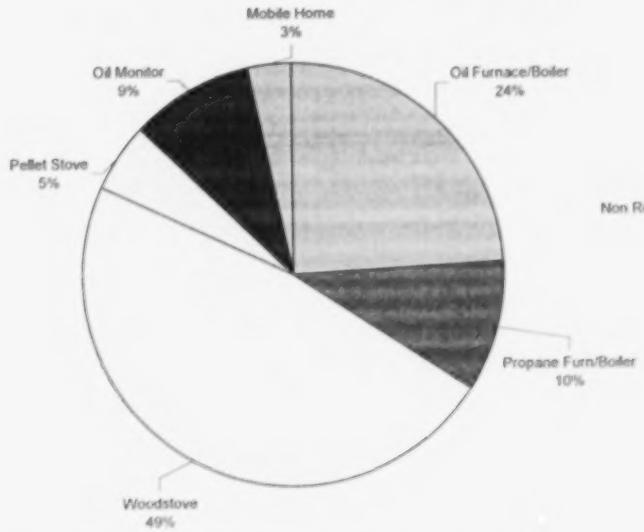

Chart 4a: Distribution of Rebates by Heating Appliance

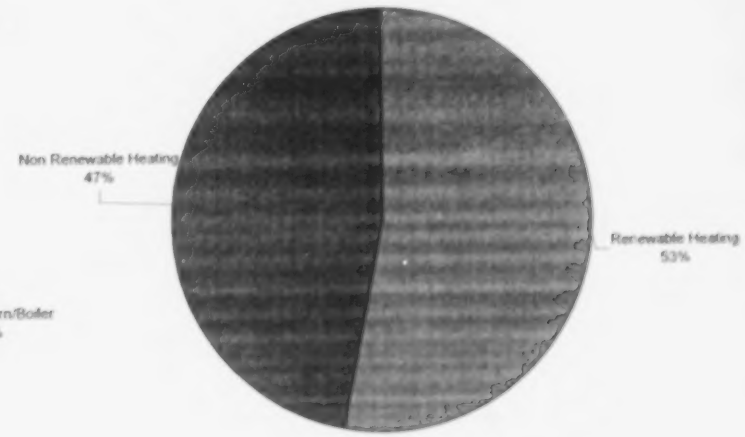

Chart 4a: Renewable vs. non-Renewable Heating Appliances

3.2.1. Energy Star® Furnaces and Boilers

91 applications were approved for the purchase of Energy Star® rated oil/propane furnaces and boilers. These appliances are typically 10-20% more efficient than a new non- Energy Star® model; however, the majority of these installations will replace older existing heating appliances for which the efficiency improvement is likely to be significantly greater then 20%. Assuming a conservative average efficiency increase of 20% and an average household heating load of 100 MBTU/year *(Yukon Housing data, Appendix B)* this is a savings of approximately 500 litres of heating oil equivalent per year per household. At the present cost of heating oil, this represents a savings to the individual household of approximately $500/year. For the 91 Yukon residents that received these furnace/boiler rebates, this represents a savings of approximately 45,000 litres of heating fuel and approximately $45,000 in costs savings per year. Over an estimated furnace/boiler lifespan of 20 years this program will produce savings of approximately 900,000 litres of oil and $900,000 for Yukoners over this time period.

Along with these costs savings, by choosing Energy Star®, participants in this program are helping to reduce greenhouse gas emissions in the territory. The 45,000 litres of heating fuel saved per year represents approximately 150 tonnes of CO_2e savings per year.

3.2.2. Wood and Pellet Stoves:

2008 was the first year that ESC included EPA-approved woodstoves and CSA-approved pellet stoves in the rebate program. Wood heat has always been a significant contributor to the Yukon's residential heating load and the pellet stoves and EPA-approved woodstoves represent the most efficient and lowest particulate emitting of these renewable energy technologies.

At 129 woodstoves and 14 pellet stoves these wood heat appliances make up 53.1% of all the heating appliance rebates and 13.5% of the total rebates for 2008/2009.

Because wood and pellet based heating systems are often used as secondary heating systems, it is difficult to quantify the avoided oil/propane use associated with these purchases; however, if we assume that the applicants who purchased these high efficiency appliances plan to use them to meet 50% of their annual heating load and we assume an average household heating load of 100 MBTU/year *(Yukon Housing Data, Appendix B)* this number represents an equivalent fuel oil savings of approximately 1,250 litres per year.

For the 143 Yukon residents who received a rebate for wood or pellet stoves, this is a total savings of approximately 180,000 litres of heating fuel per year. Over an estimated wood or pellet stove lifespan of 20 years this represents a savings of approximately 3,500,000 litres.

180,000 litres of heating fuel saved per year corresponds to a reduction of approximately 5,500 tonnes/year of CO_2e and 100,000 tonnes over the expected 20 year lifespan of these heating appliances.

It can be difficult to quantify the economic benefits that result from switching from hydrocarbon-based heating to renewable heating systems; however, it is worth noting that, based on the assumptions made above, each woodstove purchased is likely to consume approximately 3.5 cords of wood per year. At current costs of $230/cord *(Yukon Housing Data, Appendix B)* this represents approximately $800/year or $100,000/year for all the applicants who purchased woodstoves and applied for a rebate. This represents a significant shift away from imported hydrocarbon based fuels to an investment in the Yukon's local sustainable forest industry.

3.3. Heat Recovery Ventilators (HRVs)

In an energy efficient home a heat recovery ventilator (HRV) is an essential requirement to ensure an energy efficient means of maintaining indoor air quality. This is the first year that ESC has included HRV's in the rebate program and with 28 accepted applications the results have been promising.

3.4. Solar Hot Water Heating Systems

Unfortunately ESC received no applications for solar hot water heating systems in 2008/2009. As this technology is very cost effective and has significant potential in the Yukon this is likely an area in which ESC could do some work in capacity development and technology promotion.

3.5. Outboard Boat Motors

This is the first year that ESC included CARB 3 star rated outboard boat motors in the rebate program. The CARB (California Air Resource Board) 3 star rating represents the highest industry standard in low emissions outboard boat motor technology. With 31 applications received between August 1, 2008 and March 31, 2009, the results of this component of the program have been very promising.

3.6. Summary of Results

In total the Energy Star® rated household and heating appliances purchased through this program represent a total savings to Yukoners of approximately $85,000/year or approximately $1,300,000 over the life span of the appliances. This is strictly the estimated costs savings associated with increased energy efficiency of Energy Star® rated appliances and does not include the significant potential savings associated with switching form hydrocarbon based heating to renewable wood heating.

The reduction in total greenhouse gas emissions estimated to result from this program is approximately 5,650 tonnes/year of CO_2e and 100,000 CO_2e tonnes over the expected lifespan of these appliances.

4. COMMUNITY PARTICIPATION

The 2008/2009 Good Energy Rebate Program included participants from 17 Yukon communities. As with participation patterns identified in previous rebate programs, the majority of applicants were from the Whitehorse area; however, the per-capita uptake in communities outside of Whitehorse has increased by approximately 50%.

Whitehorse per capita participation in the program was 3.1% and 1.5% in communities outside of Whitehorse. While the per-capita ratio of participation outside of Whitehorse to participation in Whitehorse has increased from last year a significant gap still exists. This likely indicates the necessity for further marketing efforts of this program in the communities.

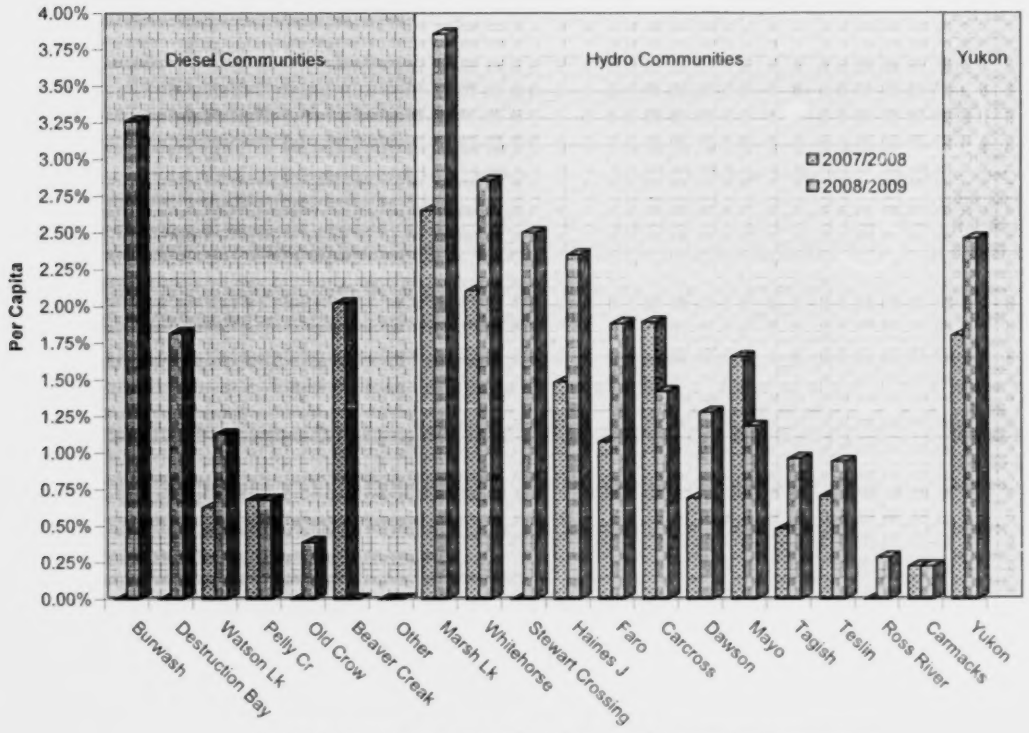

Chart 6: Per-Capita Distribution of Applications by Community

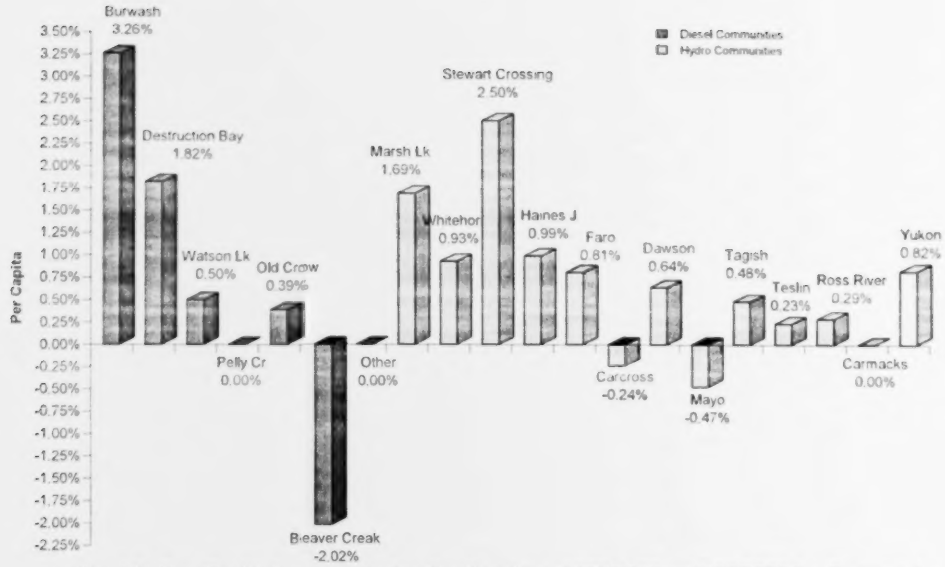

Chart 7: Per-Capita Increase in Application from 2007/2008 to 2008/2009 by Community

5. IMPORTANCE OF REBATE PROGRAM

Each program applicant is asked to rate the importance of the rebate program in their decision to purchase an energy efficient, *Good Energy* certified product. In 2008/2009 81% of applicants stated that the rebate program was either somewhat or very important to their purchase choice. This was a slight increase from 77% in 2007/2008.

A total of 42% of applicants stated that the rebate program was very important, an increase from 34% the previous year.

The level of importance ascribed to the rebate program in the consumer's decision process seemed to also be very dependent on the type of product being purchased. 82% of household appliance applicants said the program was very or somewhat important, with 46% stating that it was very important. Outboard motor applicants showed very similar responses with 86% saying the program was very or somewhat important and 50% saying it was very important. Heating appliance numbers showed slightly lower responses with the very and somewhat important total percentage at 78% and the very important at only 32%. The lower level of positive response for heating systems may be a result of the relatively low Energy Star® requirement for these appliances during the application period resulting in a large percentage of available central heating appliances being rated Energy Star®. These efficiency requirements have recently been increased by the organization that operates the Energy Star® program and the new criteria has been incorporated into the Yukon government *Good Energy* Program.

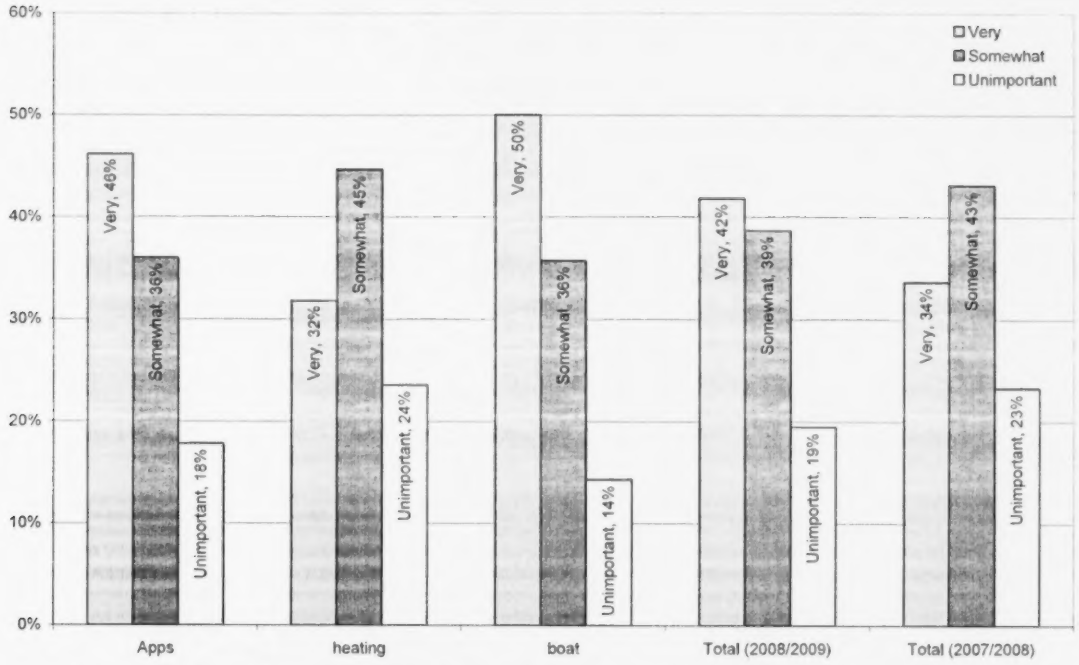

Chart 8: Applicant Response to "How important is the rebate program in your purchase choice?"

6. REASONS FOR PURCHASE CHOICE

Each applicant is asked to list their top three reasons for purchasing energy efficient and clean *Good Energy* rated products. Among the reasons indicated, "Environment" is the most common with "saving money" a close second. Performance and the rebate program also rate high as drivers of consumer decisions.

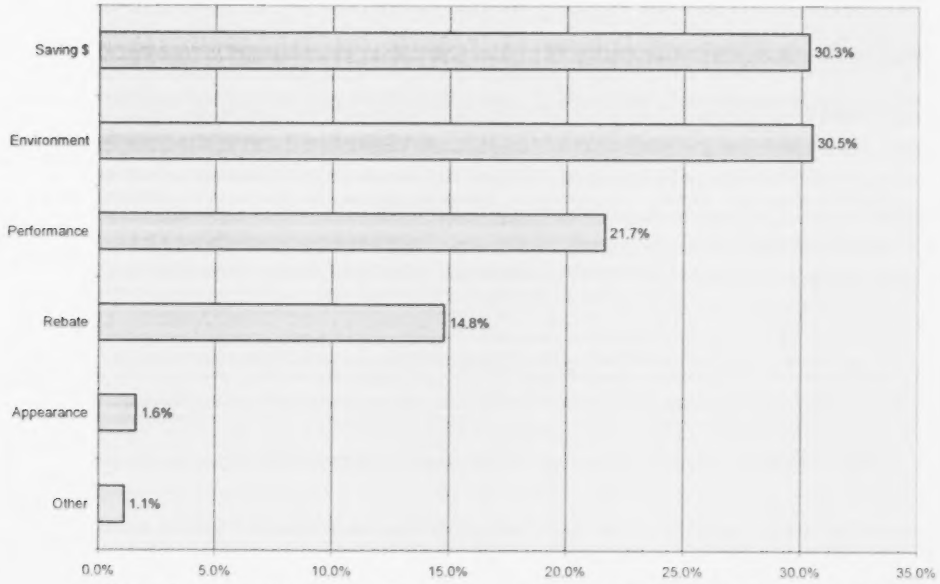

Chart 9: All Applicants Top Three Reasons for Purchasing *Good Energy* Products

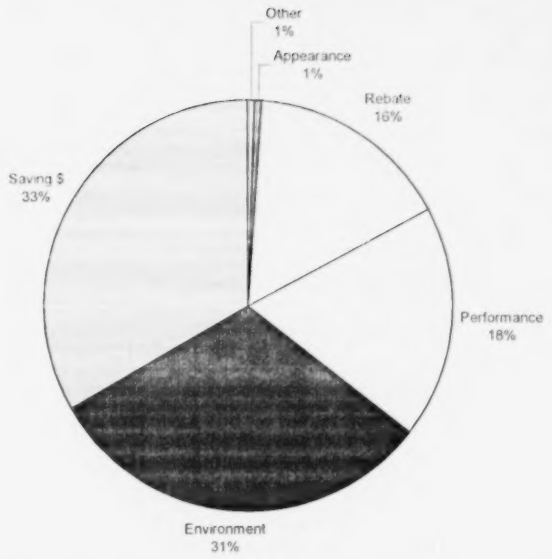

Chart 10a: No. 1 Reason for Purchase Choice

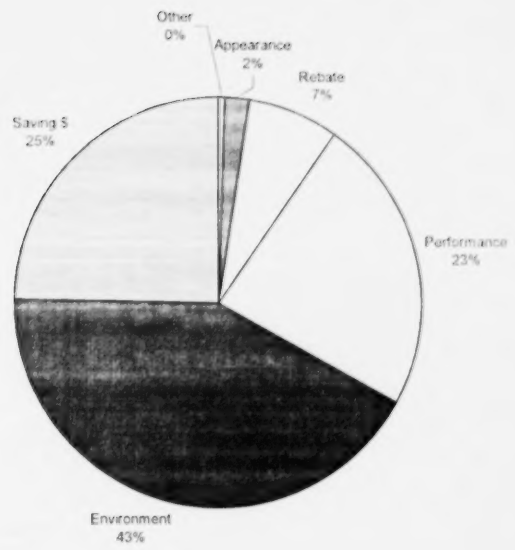

Chart 10a: No. 2 Reason for Purchase Choice

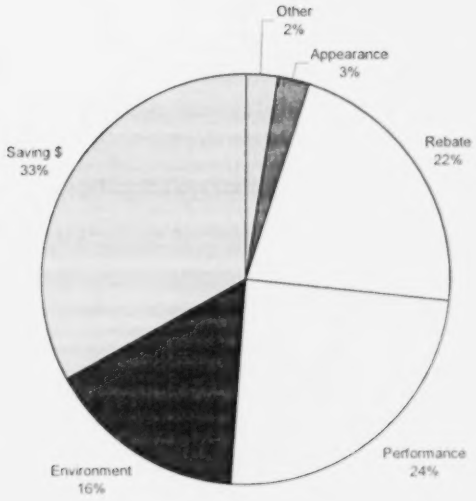

Chart 10c: No. 3 Reason for Purchase Choice

7. MARKETING EFFECTIVENESS

Over the course of the 2008/2009 Good Energy Program ESC marketing costs totalled $26,676.56. This includes radio and newspaper advertising, development and printing of application forms, in-store signage and product tags.

In order to improve future program development and marketing efforts, applicants were asked where they first heard about the program. As shown in Chart 11 below, the majority of applicants first heard about the program in the store in which the product was purchased, with word of mouth being the second most effective medium of providing the information. Newspaper ads, websites and radio ads were all also effective marketing tools.

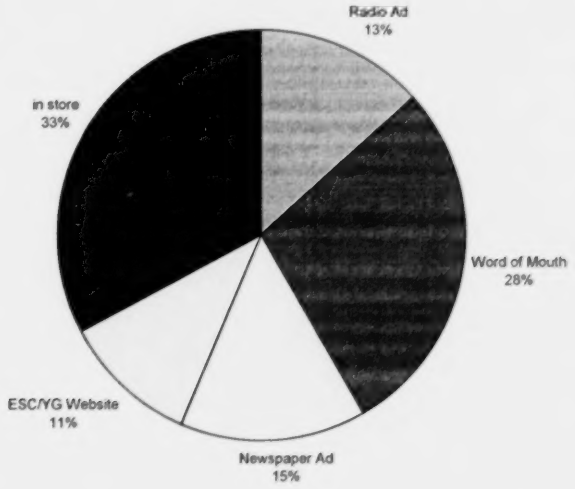

Chart 11: How Applicants Heard About the Program

Yukon government web statistics show an increase in visits to the ESC website of approximately 22% from the July to August 2008 when the programs marketing efforts began. The Good Energy related program information listed on the ESC website average 409 visits per month during the course of the program with a total of 3,270 visits to *Good Energy* related program information. This number represents approximately 23.2% of the visits made to the ESC website during that time.

	Number of Visits (By Month)								
Web Pages Visited	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Total
/pdf/good_energy_appliance_application.pdf	62	58	43	52	53	57	62	64	451
/pdf/good_energy_boat_motor_application.pdf	22	16	14	7	12	17	18	25	131
/pdf/good_energy_eligible_products.pdf	98	89	92	120	67	81	95	88	730
/pdf/good_energy_heating_application.pdf	45	49	58	69	48	47	66	71	453
/pdf/list_eligible_boilers.pdf	166	170	182	137	96	120	89	98	1,058
/pdf/list_eligible_clothes_washers.pdf	13	5	6	3	1			2	30
/pdf/list_eligible_dishwashers.pdf	9	4	4	9	5	3	6	7	47
/pdf/list_eligible_fridges.pdf	65	36	29	36	22	38	26	29	281
/pdf/list_eligible_gas_furnaces.pdf	10	11	7	7	9	19	8	4	75
/pdf/list_eligible_oil_furnaces.pdf		1	1		2	2	5	3	14
Total	**490**	**439**	**436**	**440**	**315**	**384**	**375**	**391**	**3,270**

Table 1: Estimated Energy and Water Savings of Rebated Energy Star® Rated Home Appliances

8. FAMILIARITY WITH ENERGY STAR®

One of the key objectives of this program is to educate the public on the benefits of considering energy efficiency when making purchasing decisions. Energy Star® and Energuide® are key tools available to consumers in Canada that can be used to make an informed purchasing decision.

As part of the rebate program all applicants are asked about their level of familiarity with the Energy Star® brand. As shown in Chart 12 below, the majority of applicants stated that they were somewhat or very familiar with Energy Star®. The number of applicants stating that they were unfamiliar with Energy Star® has decreased slightly from the 2007/2008 program to this year going form 16.7% to 13.1%. This may be as a result of the efforts of previous rebate programs to educate the public on the benefits of this international rating system.

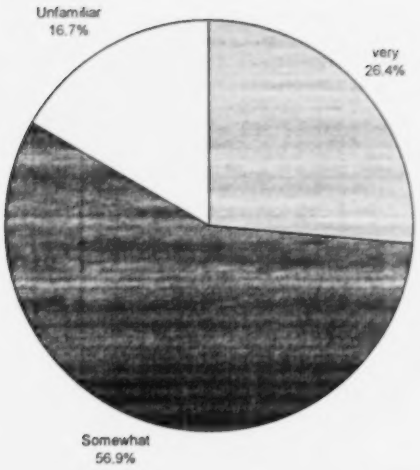

Chart 12a: 2007/2008 Familiarity with **Energy Star® Star®**

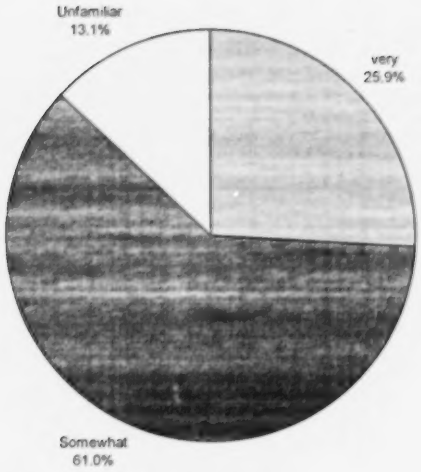

Chart 12a: 2008/2009 Familiarity with **Energy**

9. CONCLUSION

Adopting the use of best-in-class energy efficient appliances is a practical way to reduce energy and water consumption - thereby helping to reduce greenhouse gas emissions and both electrical and municipal utility infrastructure costs in the Yukon.

The project was intended not only to highlight the benefits of new technology to the public and to provide savings immediately, but also to act as a catalyst for additional behavioural changes on the part of Yukon consumers. We anticipate that the project will result in consumers becoming more aware of the benefits of this technology which will help lead to further sales of these energy efficient products. Although it is difficult to calculate with any degree of accuracy the benefit of this "after effect", there will undoubtedly be additional benefits that will result from the program in terms of lowering consumer electrical bills, reducing overall demand on the system, and reducing greenhouse gas emissions.

This project illustrates clearly that there is a high level of public interest in these high efficiency/clean appliances. And that it helps Yukoners keep energy conservation and long-term cost reduction in mind when making purchasing decisions.

Appendix A: 2008/2009 *Good Energy* Program Terms and Conditions

BOAT MOTOR REBATE APPLICATION

Please mail or deliver your completed, signed application form with a copy of your proof of purchase to:

Yukon Energy Solutions Centre, EMR-206
206A Lowe Street
Box 2703, Whitehorse, Yukon Y1A 2C6

CONTACT INFORMATION

name _____

mailing address _____
apt./street city/town postal code

motor location address *if different* _____
apt./street city/town postal code

phone _____ email _____

I give consent to the Energy Solutions Centre to investigate my claim by confirming my information with the vendor. I certify that I have read and understood the terms and conditions on the back of this form, that the noted boat motor is CARB 3 star rated equipment and resides at the above address.

Signature _____ Date _____

The Energy Solutions Centre reserves the right to conduct field inspections to verify compliance with program requirements.

PURCHASE INFORMATION

Please ensure your proof of purchase includes the correct information.
Failure to do so will result in return of application.

New Boat Motor Brand _____ Model name/no. _____ Price _____

This program applies to the following equipment:

$250 Rebate for boat motors with less than 30hp.

$500 Rebate for boat motors with 30hp or greater.

Outboard motors must meet California Air Resources Board (CARB) 3 star rating.

OLD EQUIPMENT INFORMATION

Are you replacing an old boat motor? ☐ yes ☐ no

If yes, brand _____ Model name/no. _____ Year _____

How many hours do you estimate you use this item in a year? _____

Approximately how many years have you owned your boat motor?

☐ 0-5 ☐ 6-10 ☐ 11-15 ☐ 16-20 ☐ 21-25 ☐ 26-30

SURVEY QUESTIONS

1. How did you hear about the Yukon **good energy** Boat Motor Rebate Program? Choose one.

   - ☐ Radio Ad
   - ☐ Newspaper Ad
   - ☐ Newspaper article
   - ☐ Main Yukon government website
   - ☐ Energy Solutions Centre website
   - ☐ Word of mouth
   - ☐ In-store promotion/salesperson
   - ☐ Radio Interview
   - ☐ Other

2. How important was the rebate in your decision to purchase a CARB 3 rated boat motor?

   - ☐ Very important
   - ☐ Somewhat important
   - ☐ Unimportant

3. What are your top three reasons for purchasing a **good energy** qualified boat motor instead of a standard model? Indicate order of importance.

   - ____ This rebate program
   - ____ Appearance
   - ____ Better performance
   - ____ Environmental benefits *such as energy conservation*
   - ____ Saving money
   - ____ Other _____

4. How familiar were you with energy efficient products prior to participating in this program?

   - ☐ Very familiar
   - ☐ Somewhat familiar
   - ☐ Unfamiliar
   - ☐ Would like more information

HOW THE REBATE WORKS

1. Purchase a CARB 3 star rated boat motor between August 1, 2008 and February 28, 2009. Note, this program is subject to budget availability.
   - The rebate is for new qualified boat motors. Equipment purchased outside the program dates are not eligible.
   - Participating retailers have the list of eligible equipment (and the application form) or check online at www.esc.govyk.ca
2. Check the list of eligible items and get an application form at participating retailers, or check online at www.esc.govyk.ca
3. Complete this Application Form and attach a copy of the Sales Receipt. Ensure the sales receipt (proof of purchase) clearly indicates *payment in full*, the amount paid, the date of purchase, and the make and model of the equipment.
4. Mail or deliver the application form and sales receipt to the Energy Solutions Centre.
   - The rebate application and sales receipt must be received by March 15, 2009.
   - The Energy Solutions Centre cannot be responsible for lost, late, incomplete or ineligible submissions.
   - Please allow eight weeks for delivery of your rebate cheque.

QUESTIONS

The Energy Solutions Centre helps Yukoners understand and achieve the financial and environmental benefits of energy efficiency. Information is collected in accordance with section 29 of the ATIPP Act and is being collected to satisfy the requirements of the Good Energy Program.

If you have questions about the information being collected or inquiries about the program, contact the Energy Solutions Centre at (867) 393-7063, or toll free at 1-800-661-0408, ext. 7063.

energy solutions centre

Yukon
Energy, Mines and Resources

HEATING APPLIANCE REBATE APPLICATION

Please mail or deliver your completed, signed application form with a copy of your proof of purchase to:

Yukon Energy Solutions Centre, EMR-206
206A Lowe Street
Box 2703, Whitehorse, Yukon Y1A 2C6

CONTACT INFORMATION

name _____

mailing address _____
apt./street city/town postal code

installation address *if different* _____
apt./street city/town postal code

phone _____ email _____

I give consent to the Energy Solutions Centre to investigate my claim by confirming my information with the vendor. I certify that I have read and understood the terms and conditions on the back of this form, that the noted heating appliance is an eligible energy efficient heating appliance and has been installed at the above address.

Signature _____ Date _____

The Energy Solutions Centre reserves the right to conduct field inspections to verify heating system compliance.

PURCHASE INFORMATION

Please ensure your proof of purchase includes the correct information.
Failure to do so will result in return of application.

Heating Appliance Brand _____ Model name/no. _____ Price _____

This program applies to the following heating appliances:

$250 Rebate for oil furnaces for mobile homes with 80.0% AFUE or better

$300 Rebate for the purchase of a new EPA qualified woodstove, or ULC rated wood pellet stove, furnace or boiler

$300 Rebate for the purchase of an oil furnace or boiler with 83% to 84.99% efficiency, or a propane furnace/boiler with 90% efficiency

$300 Rebate for the purchase of a new heat recovery ventilator, certified by the Home Ventilation Institute

$500 Rebate for the purchase of a new ENERGY Star® qualified oil furnace with 85% (or greater) efficiency, propane furnace or boiler with 92% (or greater) efficiency

$500 Rebate for the purchase of a CAN/CSA approved solar domestic hot water heating system.

OLD APPLIANCE INFORMATION

Are you replacing an old heating appliance? ☐ yes ☐ no

If yes, brand _____ Model name/no. _____

Approximately how many years have you owned your appliance?

☐ 0-5 ☐ 6-10 ☐ 11-15 ☐ 16-20 ☐ 21-25 ☐ 26-30

How will the old appliance be recycled?

☐ picked up upon delivery ☐ taken to local landfill/metal recycler ☐ other

SURVEY QUESTIONS

1. How did you hear about the Yukon **good energy** Appliance Rebate Program? Choose one.

   - ☐ Radio Ad
   - ☐ Newspaper Ad
   - ☐ Newspaper article
   - ☐ Main Yukon government website
   - ☐ Energy Solutions Centre website
   - ☐ Word of mouth
   - ☐ In-store promotion/salesperson
   - ☐ Radio Interview
   - ☐ Other

2. How important was the rebate in your decision to purchase a **good energy** qualified heating appliance?

   - ☐ Very important
   - ☐ Somewhat important
   - ☐ Unimportant

3. What are your top three reasons for purchasing a **good energy** qualified heating appliance instead of a standard heating system? Indicate order of importance.

   - ____ This rebate program
   - ____ Appearance
   - ____ Better performance
   - ____ Environmental benefits *such as energy conservation*
   - ____ Saving money on utility bills
   - ____ Other _____

4. How familiar were you with energy efficient heating products prior to participating in this program?

   - ☐ Very familiar
   - ☐ Somewhat familiar
   - ☐ Unfamiliar
   - ☐ Would like more information

HOW THE REBATE WORKS

1. Purchase a new qualified heating appliance between August 1, 2008 and February 28, 2009. Note, this program is subject to budget availability.
   - The rebate is for new qualified heating appliances. Appliances purchased outside the program dates are not eligible.
   - Participating retailers have the list of eligible appliances (and the application form) or check online at www.esc.gov.yk.ca
2. Complete this Application Form and attach a copy of the Sales Receipt. Ensure the sales receipt (proof of purchase) clearly indicates *payment in full*, the amount paid, the date of purchase, and the make and model of the heating appliance.
3. Mail or deliver the application form and sales receipt to the Energy Solutions Centre.
   - The rebate application and sales receipt must be received by March 15, 2009.
   - The Energy Solutions Centre cannot be responsible for lost, late, incomplete or ineligible submissions.
   - Please allow eight weeks for delivery of your rebate cheque.

QUESTIONS

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APPLIANCE REBATE APPLICATION

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Yukon Energy Solutions Centre, EMR-206
206A Lowe Street
Box 2703, Whitehorse, Yukon Y1A 2C6

CONTACT INFORMATION

name _____

mailing address _____
apt./street city/town postal code

installation address *if different* _____
apt./street city/town postal code

phone _____ email _____

I give consent to the Energy Solutions Centre to investigate my claim by confirming my information with the vendor. I certify that I have read and understood the terms and conditions on the back of this form, that the noted appliance is an eligible ENERGY STAR® appliance and has been installed at the above address.

Signature _____ Date _____

The Energy Solutions Centre reserves the right to conduct field inspections to verify appliance installation and compliance.

PURCHASE INFORMATION

Please ensure your proof of purchase includes the correct information.
Failure to do so will result in return of application.

New Appliance Brand _____ Model number _____

This program applies to the following appliances. Please check all applicable rebates.

$100 Rebate for the purchase of a new ENERGY STAR® qualified refrigerator, clothes washer, dishwasher, and/or freezer installed in Yukon Communities powered by hydroelectricity.

- ☐ Refrigerator
- ☐ Dishwasher
- ☐ Front-Load Washer
- ☐ Freezer

$200 Rebate for the purchase of a new ENERGY STAR® qualified refrigerator, clothes washer, dishwasher, and/or freezer installed in Yukon diesel-powered communities.*

- ☐ Refrigerator
- ☐ Dishwasher
- ☐ Front-Load Washer
- ☐ Freezer

**Yukon's Diesel-powered communities are: Beaver Creek, Burwash Landing, Destruction Bay, Old Crow, Pelly Crossing, Upper Liard and Watson Lake.*

OLD APPLIANCE INFORMATION

Are you replacing an old appliance? ☐ yes ☐ no

If yes, brand _____ Model number *if known* _____

Approximately how many years have you owned your appliance?

☐ 0-5 ☐ 6-10 ☐ 11-15 ☐ 16-20 ☐ 21-25 ☐ 26-30

How will the old appliance be recycled?

☐ picked up upon delivery ☐ taken to local landfill/metal recycler ☐ other _____

SURVEY QUESTIONS

1. How did you hear about the Yukon **good energy** Appliance Rebate Program? Choose one.

   - ☐ Radio Ad
   - ☐ Newspaper Ad
   - ☐ Newspaper article
   - ☐ Main Yukon government website
   - ☐ Energy Solutions Centre website
   - ☐ Word of mouth
   - ☐ In-store promotion/salesperson
   - ☐ Radio Interview
   - ☐ Other

2. How important was the rebate in your decision to purchase a **good energy** qualified appliance?

   - ☐ Very important
   - ☐ Somewhat important
   - ☐ Unimportant

3. What are your top three reasons for purchasing a **good energy** qualified appliance instead of a standard refrigerator, clothes washer, dishwasher, or freezer? Indicate order of importance.

   _____This rebate program
   _____Appearance
   _____Better performance
   _____Environmental benefits
   such as water and energy conservation
   _____Saving money on utility bills
   _____Other_____

4. How familiar were you with ENERGY STAR® products prior to participating in this program?

   - ☐ Very familiar
   - ☐ Somewhat familiar
   - ☐ Unfamiliar
   - ☐ Would like more information

HOW THE REBATE WORKS

1. Purchase an Energy Star® appliance between August 1, 2008 and February 28, 2009. Note, this program is subject to budget availability.
   - The rebate is for the following new Energy Star® qualified appliances: refrigerators, front-loading clothes washers (not dryers), dishwashers, and freezers. Appliances purchased outside the program dates are not eligible.
   - Participating retailers have the list of eligible appliances (and the application form) or check online at www.esc.gov.yk.ca
2. Complete this Application Form and attach a copy of the Sales Receipt. Ensure the sales receipt (proof of purchase) clearly indicates *payment in full*, the amount paid, the date of purchase, and the make and model of the appliance.
3. Mail or deliver the application form and sales receipt to the Energy Solutions Centre.
   - The rebate application and sales receipt must be received by March 15, 2009.
   - The Energy Solutions Centre cannot be responsible for lost, late, incomplete or ineligible submissions.
   - Please allow eight weeks for delivery of your rebate cheque.

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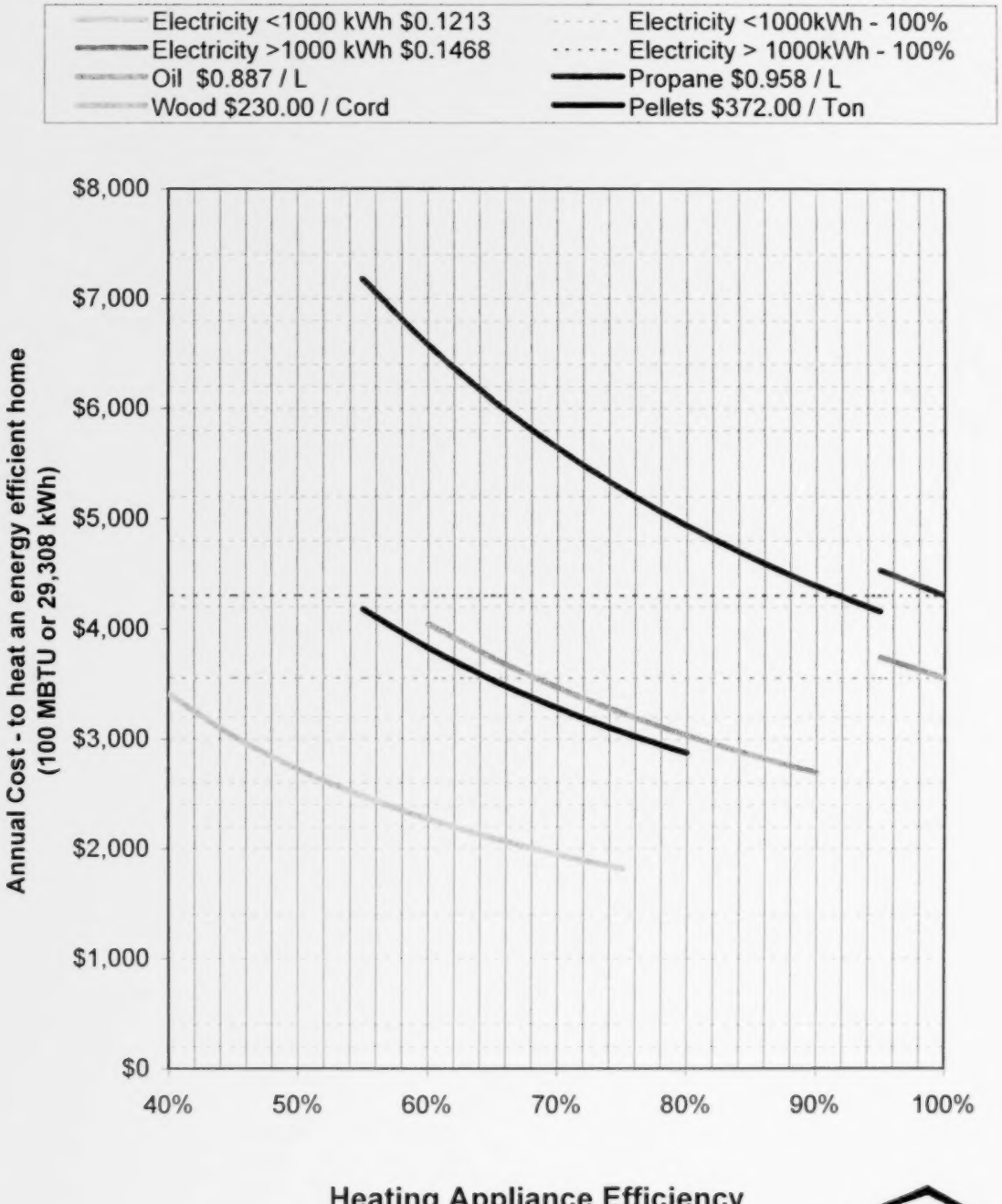
Appendix B: Yukon Housing Corporation: Heat Energy vs. Floor Area Analysis

Home Heating Costs vs. Heating Appliance Efficiency

March 11, 2009 Fuel Prices



YUKON HOUSING CORPORATION